Sheet 1 of 44

	Ad5 37 5			Ad5 39.5 5			ts149 37 5			ts149 39.5 5		°C MOI
10	1	0.1	10	1	0.1	10	1	0.1	10	1	0.1	μl

Figure 1

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Sheet 2 of 44

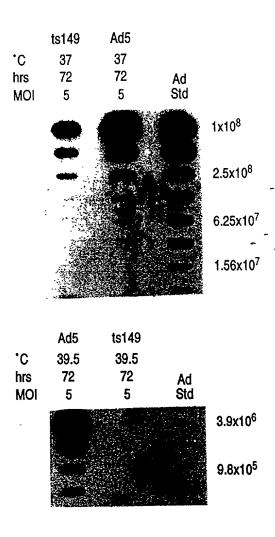


Figure 2

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.
Application No.: Not Yet Assigned Docket No.: 226272003310

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		ts149 39.5		Ad5 37		49 9.5	.c
		72			72	96	hrs
5	10	20	40		5	5	MOI



Figure 3

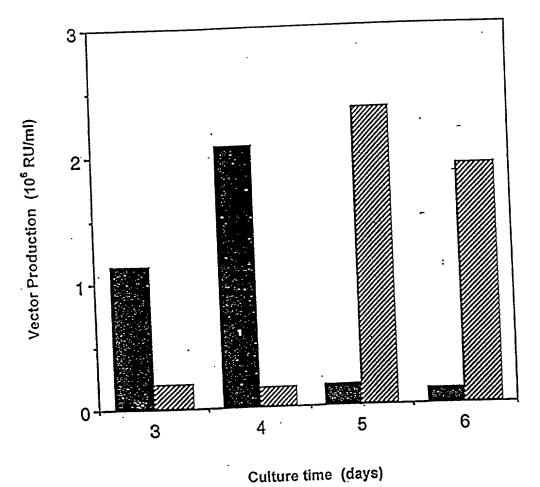


Figure 4

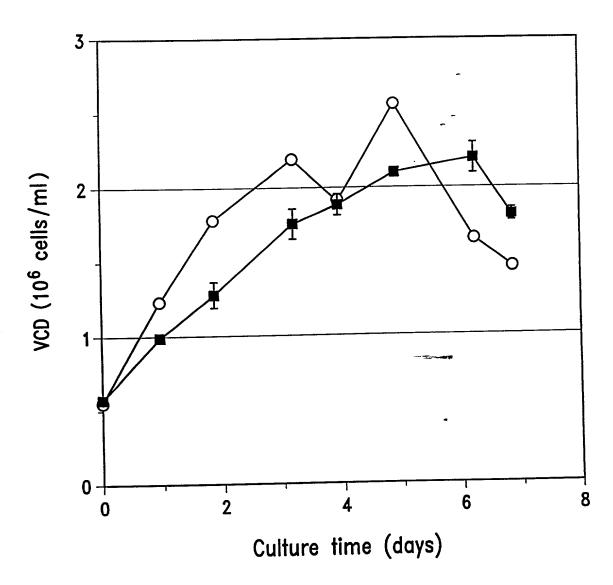


Figure 5

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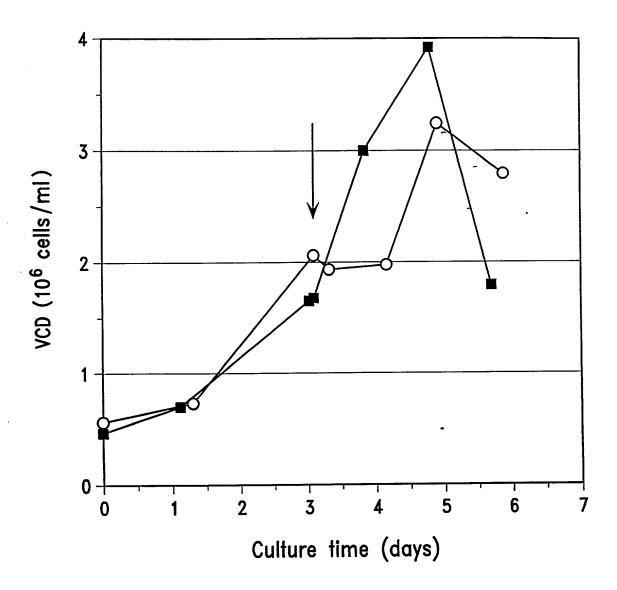


Figure 6



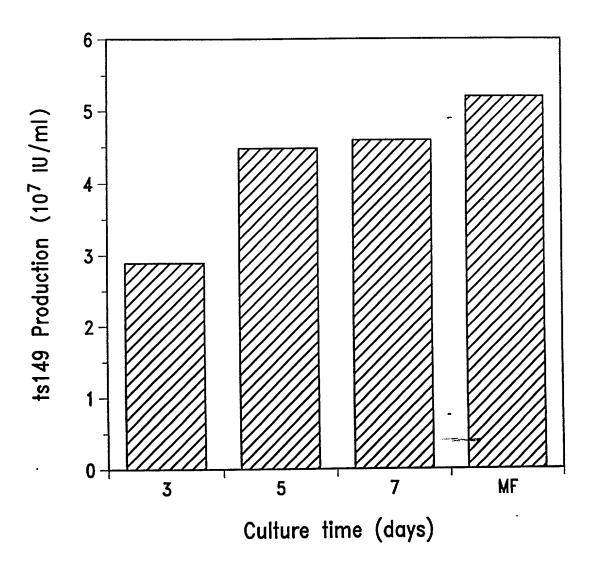
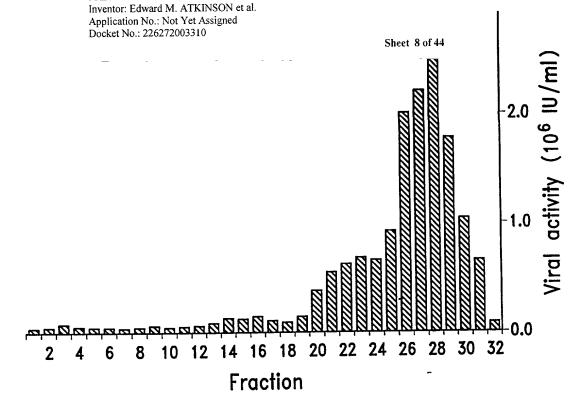


Figure 7

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS



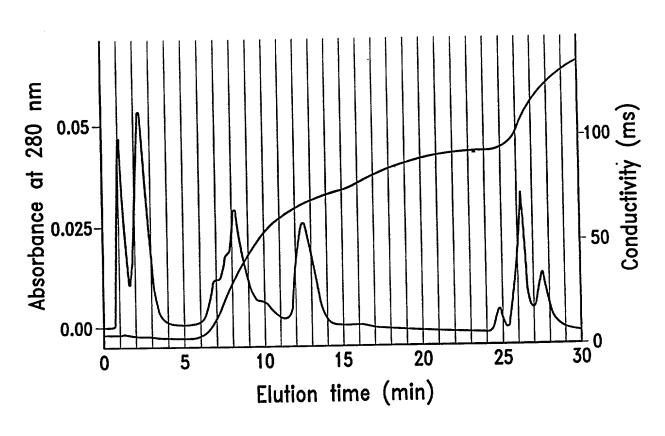


Figure 8

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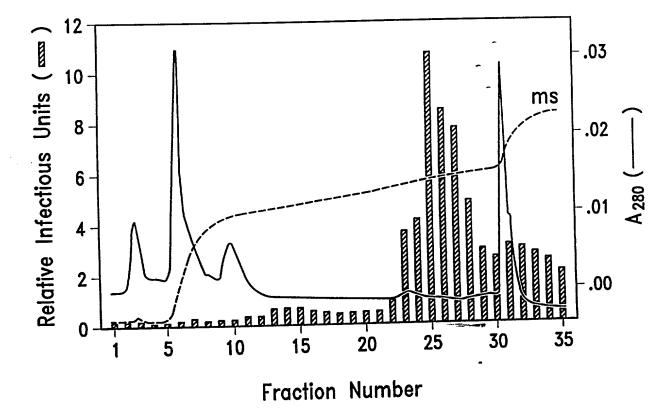
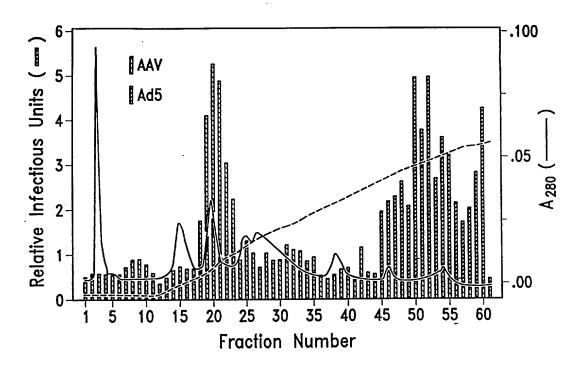


Figure 9

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Inventor: Edward M. ATKINSON et al. Application No.: Not Yet Assigned Docket No.: 226272003310

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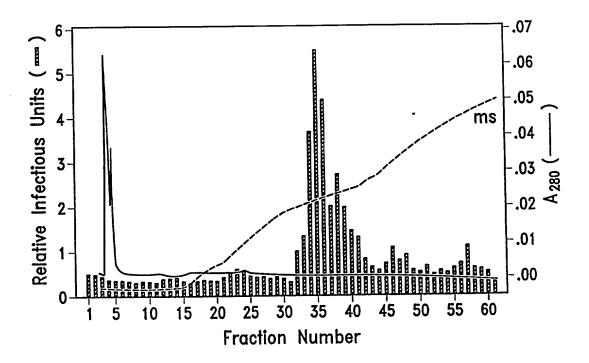
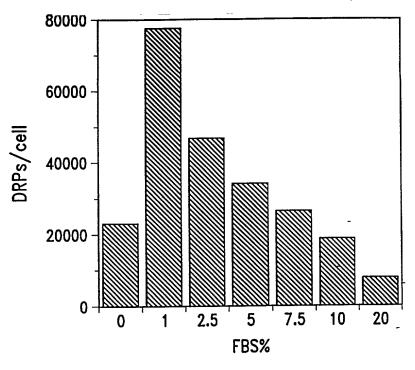


Figure 10

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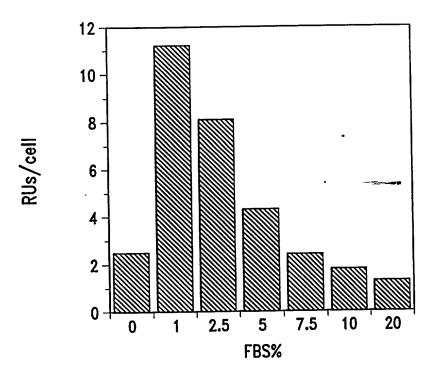


Figure 11

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Sheet 12 of 44

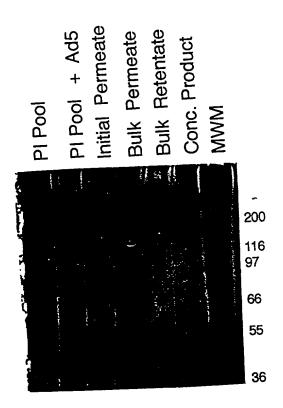


Figure 12

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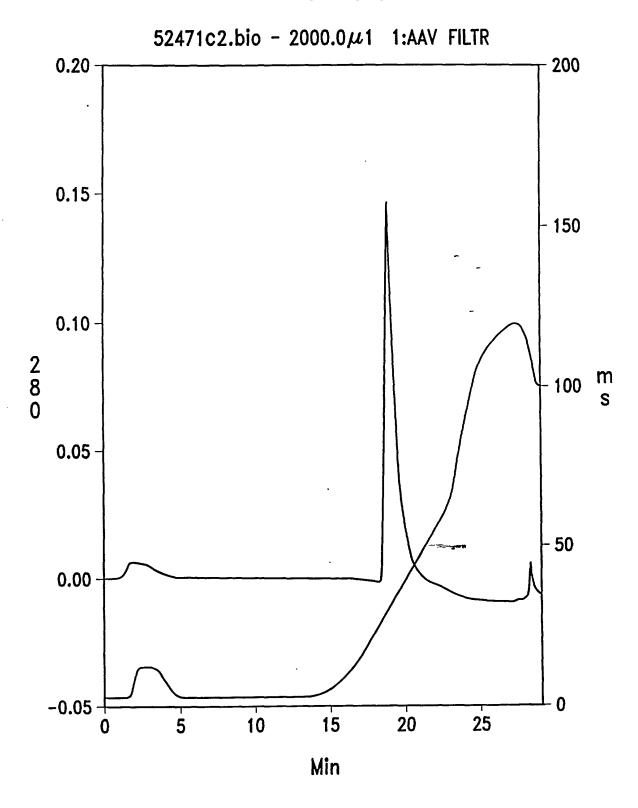
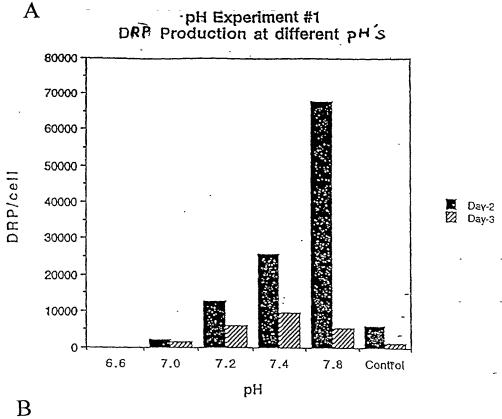


Figure 13

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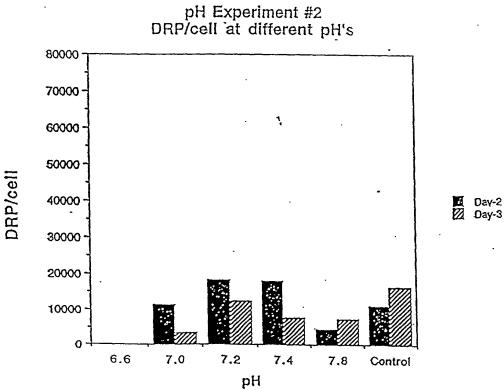
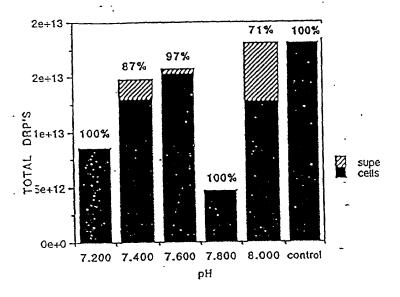


Figure 14

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A CFTR JL-14 REACTOR PH EXPERIMENT #3
DISTRIBUTION OF VECTOR IN CELLS/SUPE
TOTAL CULTURE DRP'S DAY 2



B .

CFTR JL-14 REACTOR PH EXPERIMENT #3
DISTRIBUTION OF VECTOR IN CELLS/SUPE
TOTAL CULTURE DRP'S DAY 3

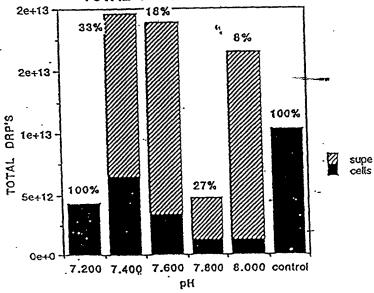


Figure 15

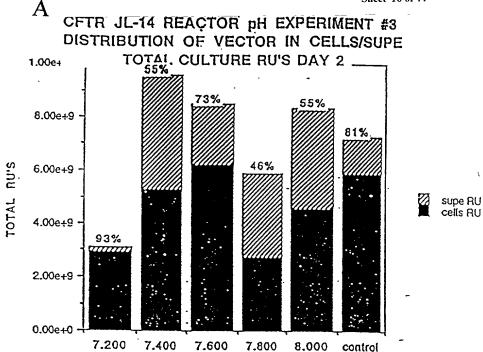
Application No.: Not Yet Assigned Docket No.: 226272003310

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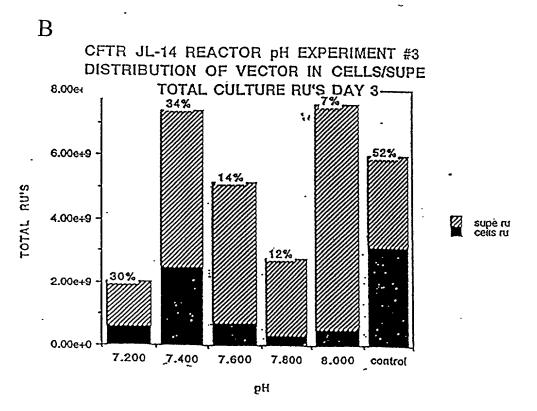
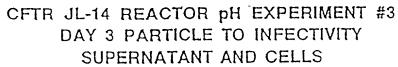


Figure 16

Hall and Hall Hall

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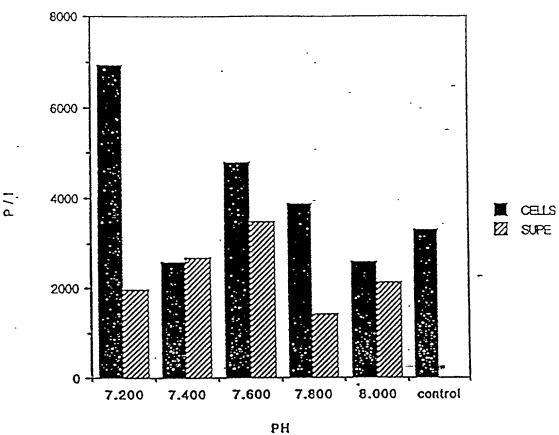


Figure 17

Total DRP's

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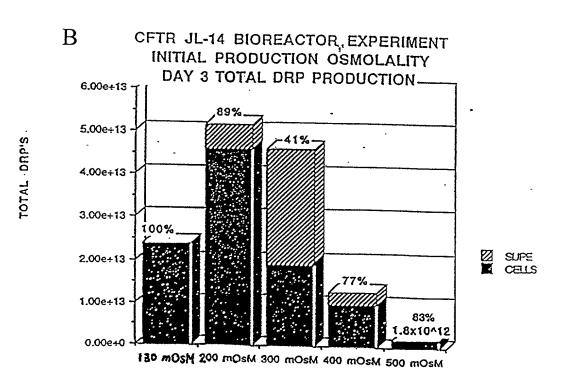
A CFTR JL-14 BIOREACTOR EXPERIMENT
INITIAL PRODUCTION OSMOLALITY
DAY 2 TOTAL DRP PRODUCTION

5e+13

4e+13

2e+13

1e+13

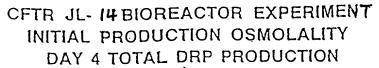


130mOsM 200mOsM 300mOsM 400mOsM 500mOsM

Figure 18

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Sheet 19 of 44



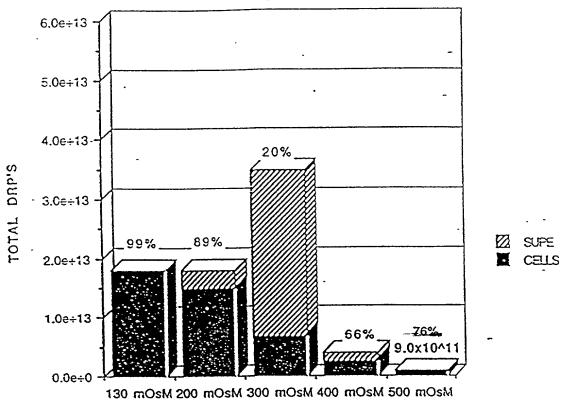
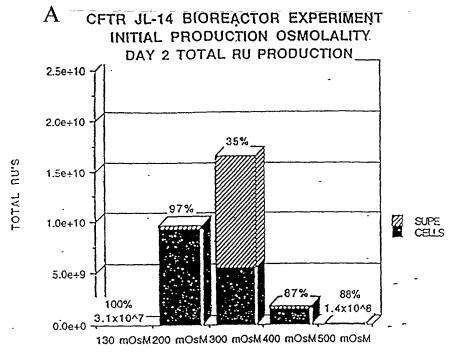
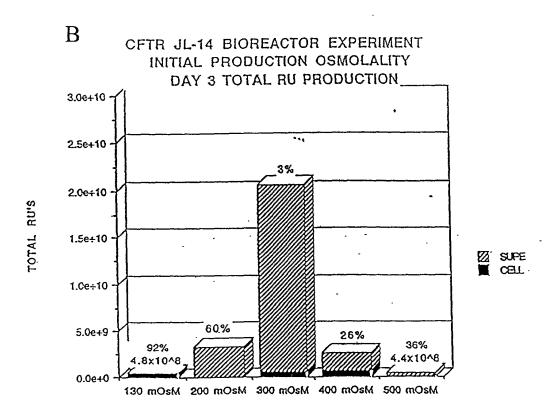


Figure 18C

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Figure 19

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Docket No.: 226272003310

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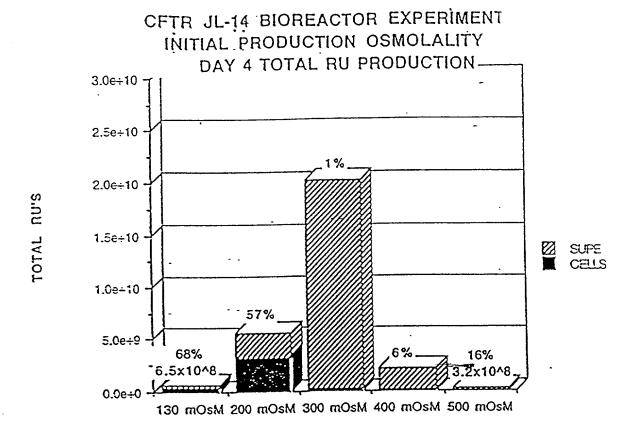


Figure 19C

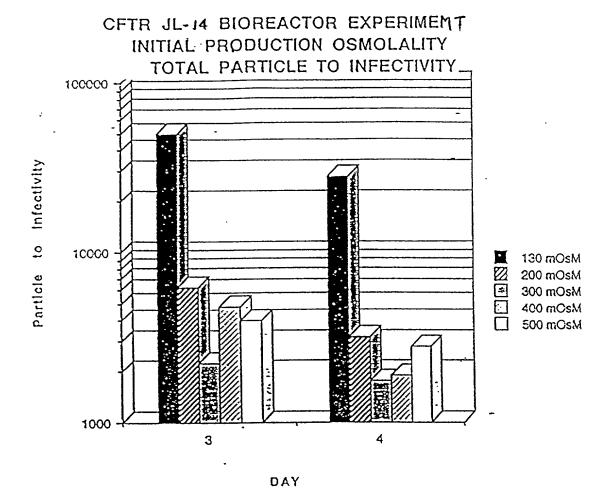
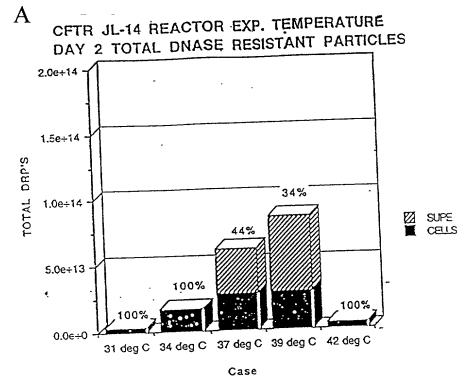


Figure 20

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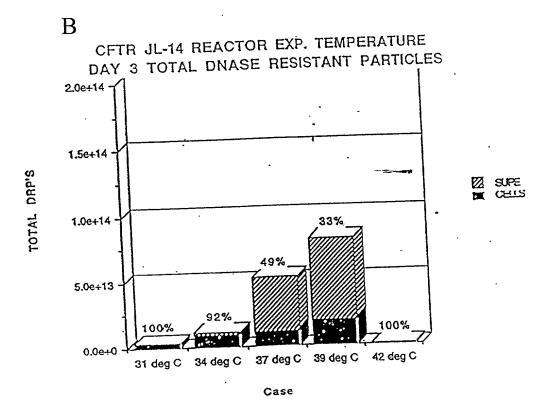


Figure 21

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Sheet 24 of 44

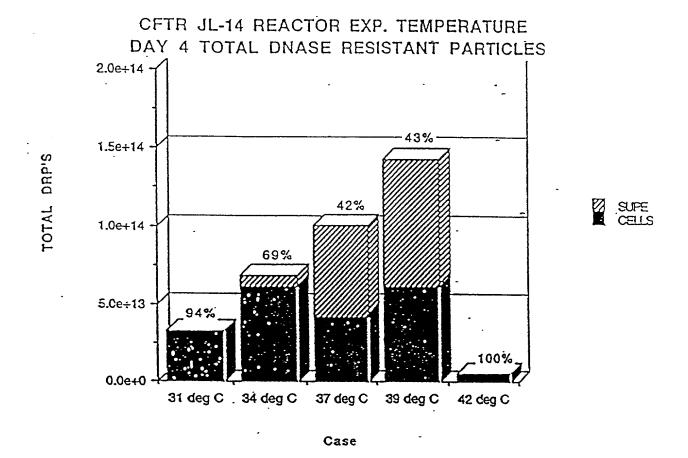


Figure 21C

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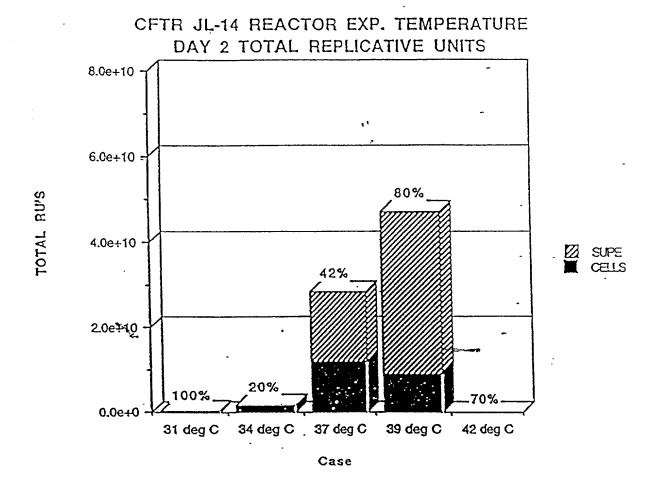
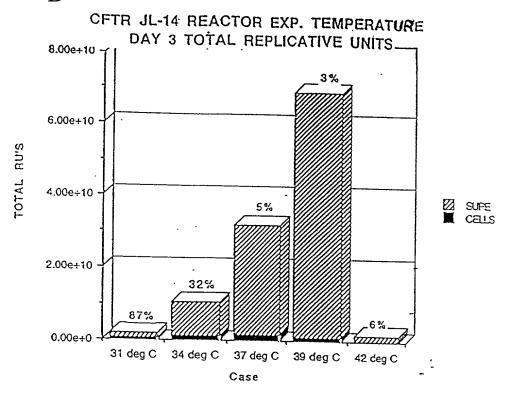


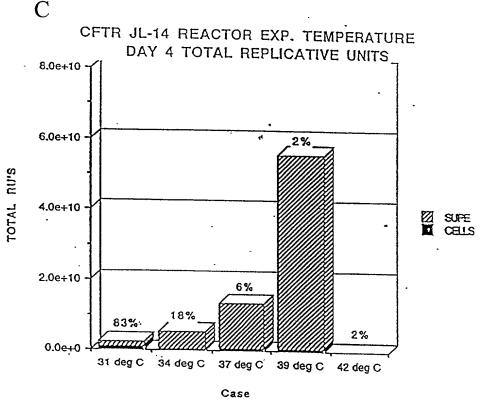
Figure 22A

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Figures 22B and 22C

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CFTR JL-14 Feed Experiment II Total DRP's - Day 3 Supe

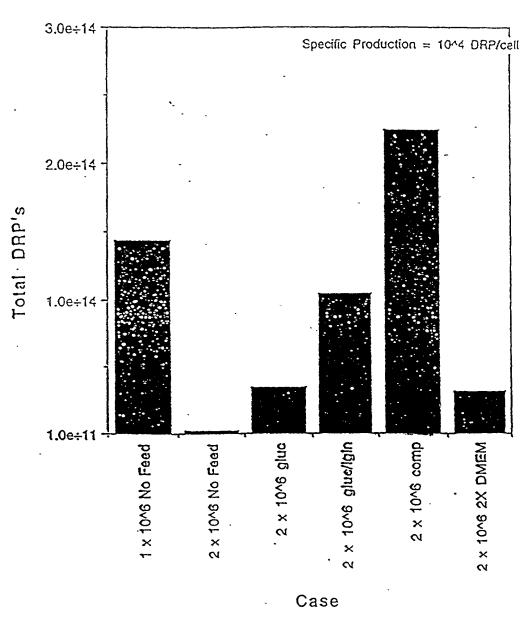


Figure 23

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Sheet 28 of 44

CFTR JL-14 Feed Experiment II Total RU's - Day 3 Supe

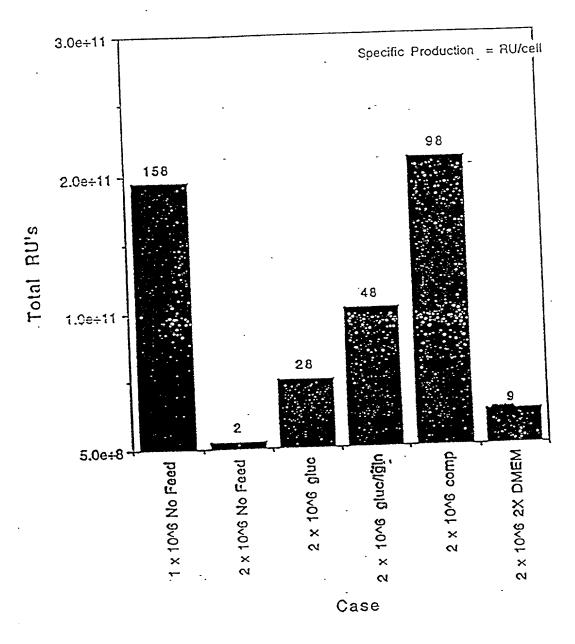
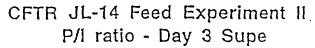


Figure 24

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS

Inventor: Edward M. ATKINSON et al. Application No.: Not Yet Assigned Docket No.: 226272003310

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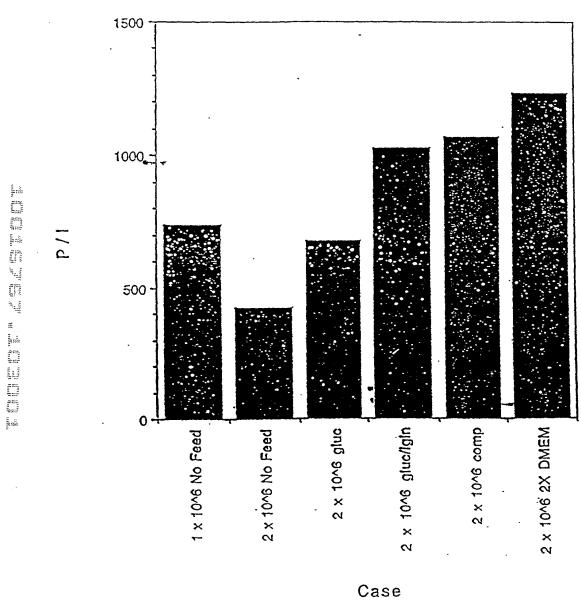


Figure 25

Sheet 30 of 44

Lactalbumun Hydrolysate w/Earle's Salts (ELH)						
Base Cat No.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11800				
Component	1XLiquid mg/L	mg/L				
INORGANIC SALTS: CaCl ₂ (anhyd.) KCI MgSO ₄ (anhyd.) NaCl	200.00 400.00 97.67 6800.00 2200.00	200.00 400.00 97.70 6800.00				
NaHCO ₃ NaH ₂ PO ₄ • H ₂ O	140.00	140.00				
OTHER COMPONENTS: D-Glucose Lactalbumin Hydrolysate Phenol Red	1000.00 6500.00 10.00					

MEM Amino Acids Solutions ²						
Base Cat No.	11136	21135				
Component	50X Liquid	50X Liquid				
L-Luecine L-Lysins HCI L-Methionine L-Phenylainine L-Threonine L-Tryptophan	mg/L 6320.00 1200.00 - 0 2100.00 2625.00 2620.00 3625.00 755.00 1650.00 2380.00 510.00	mg/L 6320.00 1200.00 14600.00 2100.00 2625.00 2620.00 3625.00 755.00 1650.00 2380.00 510.00 1800.00				

References:

1. Eagle, H. (1955) Proc. Soc. Exp. Biol. Med. 89, 362.

2. Eagle, H. (1959) Science 130, 432

MEM Non-Essential Amino Acids Solution ²						
Base Cat No. Component	11140 100X Liquid mg/L					
AMINO ACIDS: L-Algnine L-Asparagine L-Aspartic L-Glutamine Glycine L-Proline L-Serine	890.00 1500.00 1330.00 1470.00 750.00 1150.00					

MEM Vitamon Solutions ²					
Base Cat No.	11120 50X Liquid				
Component	mg/L				
NaCl D-Ca Pantothenate Choline Chloride Folic Acid I-Inositol Nicotinamide Pyridoxal-HCl Riboflavin Thiamine HCl	8500.00 100.00 100.00 100.00 200.00 100.00 10.00 10.00				

Figure 26

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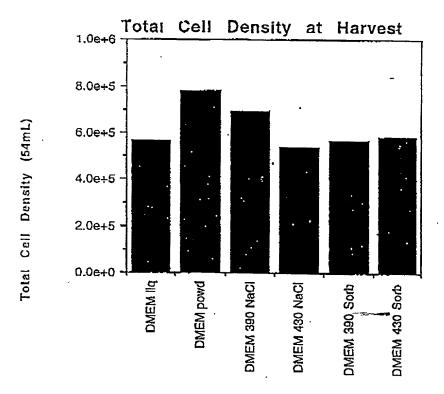


Figure 27

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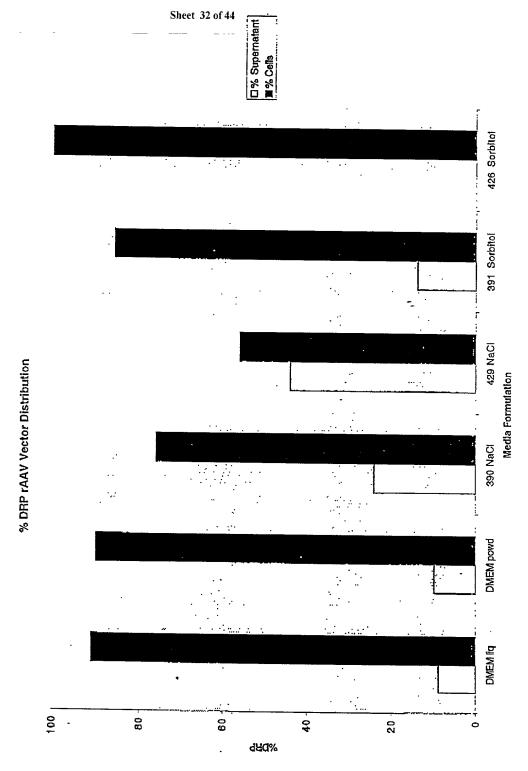


Figure 28

% RU rAAV Vector Distribution

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al Application No.: Not Yet Assigned Docket No.: 226272003310

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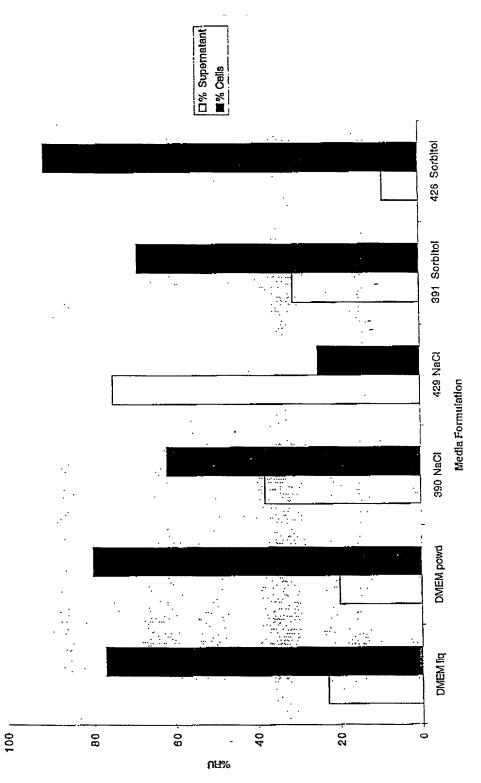


Figure 29

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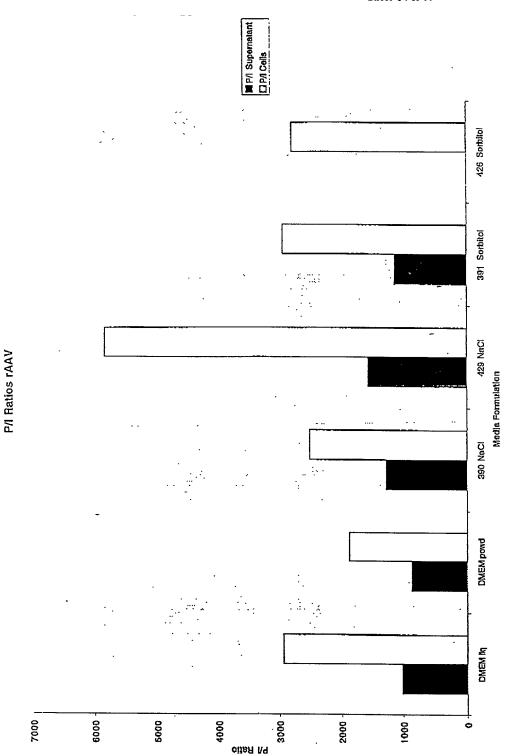


Figure 30

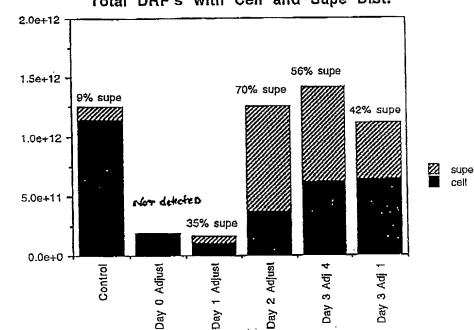
Sheet 35 of 44



Total DRP's

Total RU's

Daily Salt Adjustment T-Flask Total DRP's with Cell and Supe Dist.



В

Daily Salt Adjustment T-Flask Total RU's with Cell and Supe Dist.

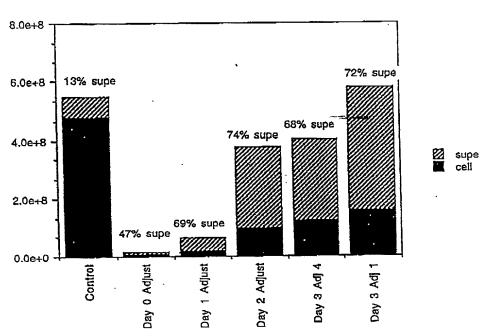


Figure 31

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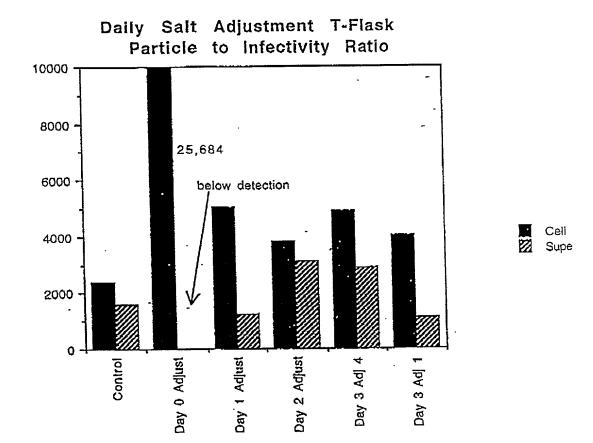
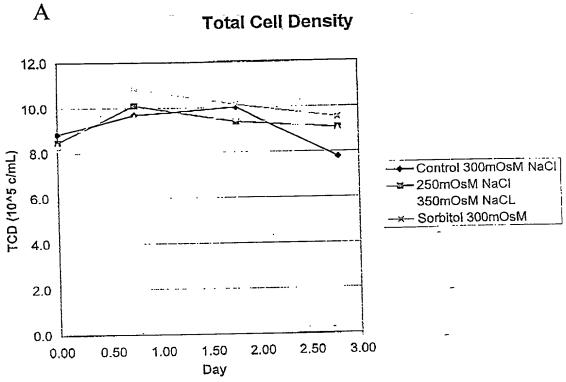


Figure 32

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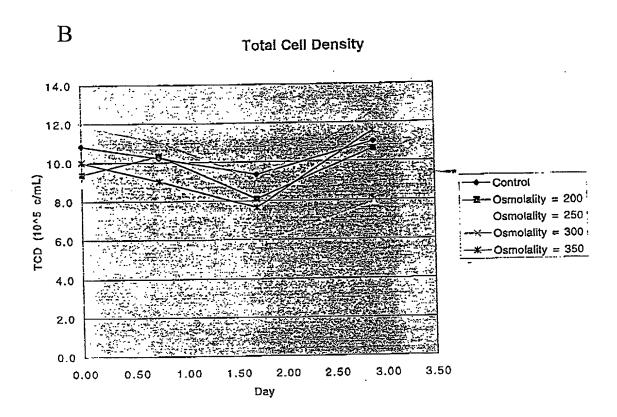


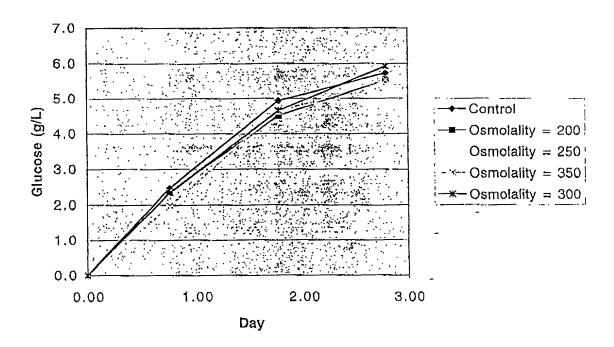
Figure 33

Sheet 38 of 44



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Cumulative Glucose Consumed



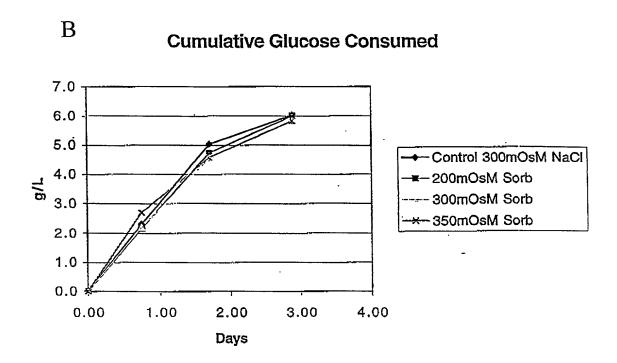
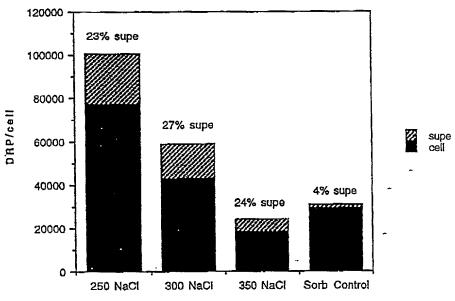


Figure 34

Sheet 39 of 44

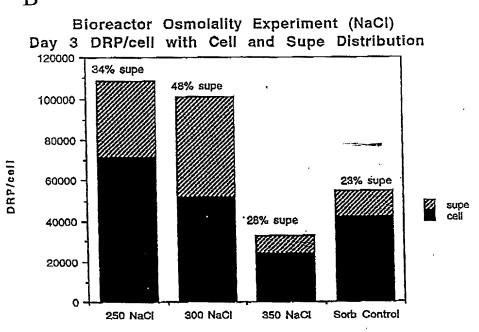
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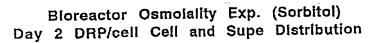
Figures 35A and 35B

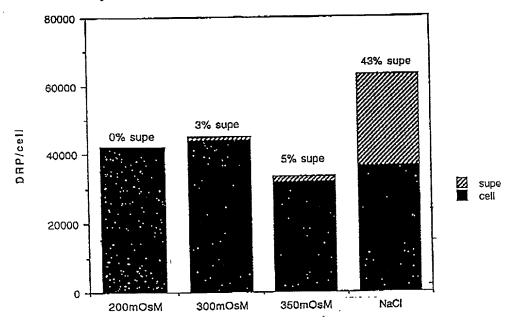
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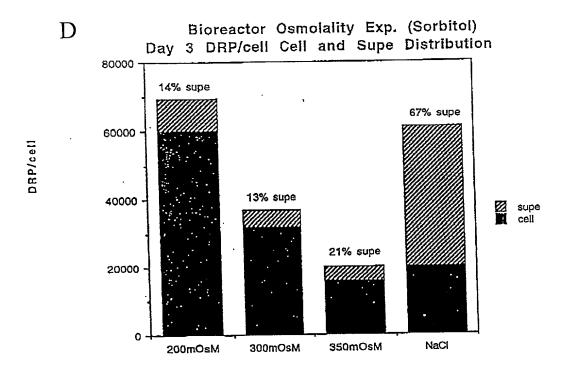
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Sheet 40 of 44



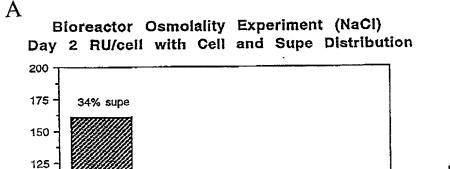


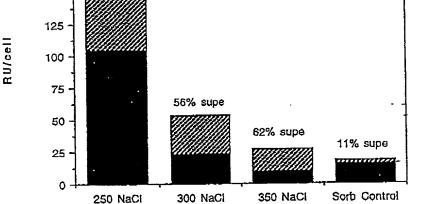


Figures 35C and 35D

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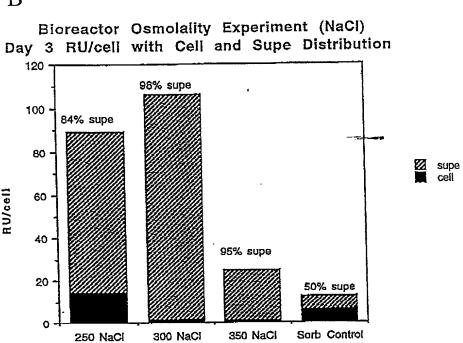




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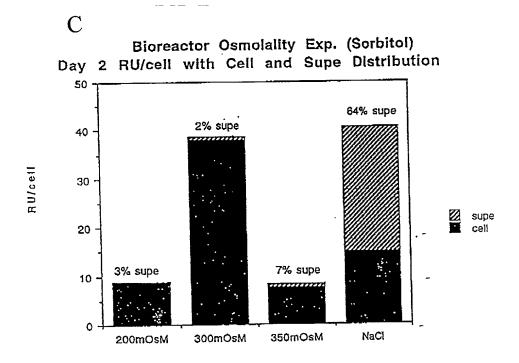
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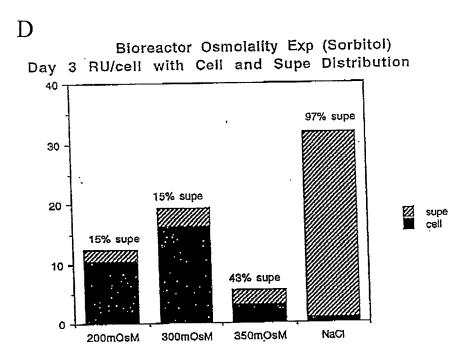


Figures 36A and 36B

The first first state

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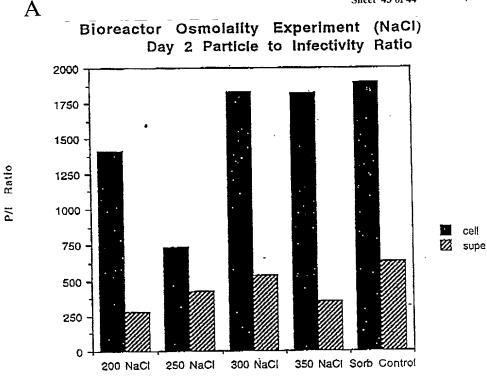




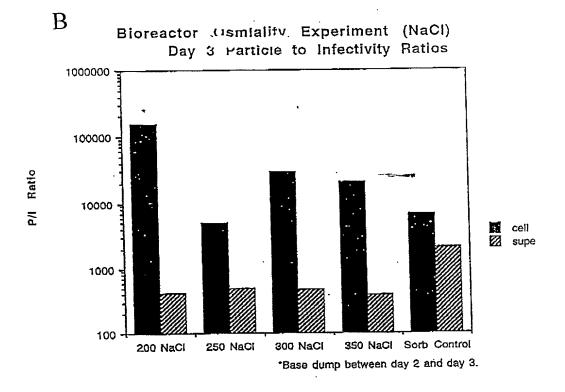
Figures 36C and 36D

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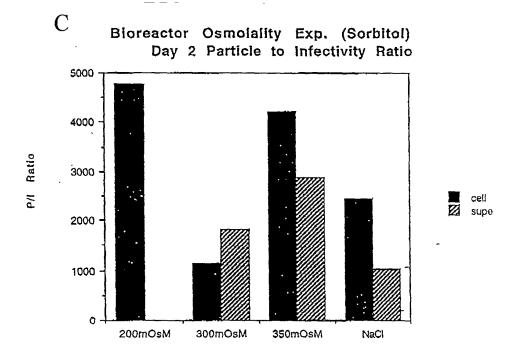


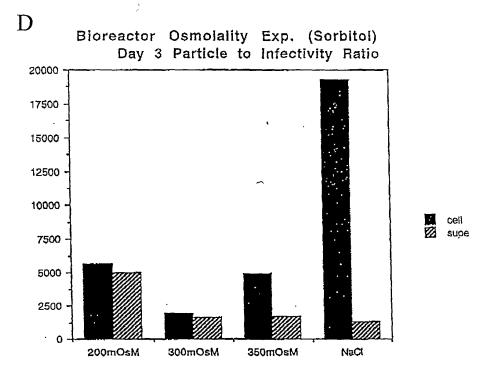
P/I Ratio D2



Figures 37A and 37B

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Figures 37C and 37D